

HISTORIC AMERICAN ENGINEERING RECORD

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WELLTON-MOHAWK IRRIGATION SYSTEM, PUMPING
PLANT NO. 1
Bounded by Gila River & Union Pacific Railroad
Wellton vicinity
Yuma County
Arizona

HAER AZ-68-A

Photographs HAER AZ-68-A-24 through HAER AZ-68-A-27 are 8x10 inch contact prints from copy negatives of 11x17 inch Xerox copies of original architectural drawings. The original materials are held at the U.S. Department of the Interior, Bureau of Reclamation, Yuma Area Office, 7301 Calle Agua Salada, Yuma, Arizona 85364.

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David G De Vries, photographer, October 2005

AZ-68-A-1	Context view, looking south along the Wellton-Mohawk Canal toward Pumping Plant
AZ-68-A-2	North front, or intake side of Pumping Plant. The three small regulatory pumps to the right of the building were installed ca. 1974-1975
AZ-68-A-3	East side. The Main Control Room is located in the wing to the right
AZ-68-A-4	South rear, east end. Original power inlet is visible halfway up the wall
AZ-68-A-5	South rear and west side, oblique view to the northeast
AZ-68-A-6	West side
AZ-68-A-7	Looking east along the operating deck above the intake toward the Main Control Room. An evaporative-cooling system is to the left of the Control Room, and a motor-operated, geared trolley hoist and rake for removing debris from the trash rack is in the foreground

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AZ-68-A-8	Afterbay, showing the six discharge channels and six hydraulic gate check cylinders, one for each of the discharge pipes. A stilling well is in the right foreground, and the Pumping Plant is visible in the background. View to the north
AZ-68-A-9	Afterbay, looking west at the discharge channels and hydraulic gate check cylinders. The outlet at left without a hydraulic cylinder is the outlet for the ca. 1974-1975 outdoor regulatory pumps. The gate box for the spillback is visible at the far left on the west side of the canal
AZ-68-A-10	Motor Room, overall view to the west. The control cabinet and cement pipes along the south wall are being temporarily stored in the Pumping Plant and are not part of the original equipment
AZ-68-A-11	Motor Room, view to east
AZ-68-A-12	Detail of a storage and work bench on the north wall at the east end of Motor Room
AZ-68-A-13	West end of Motor Room. Visible, from left to right, are the unit 6 pump motor, stairs to the basement, a ladder to the overhead traveling crane, a bathroom in the northwest corner, and a work bench at right
AZ-68-A-14	Detail, unit 3, 1,100 horsepower (hp) pump motor. Manufactured by the Electric Products Company, Cleveland, Ohio, USA. Units 1,2, and 4 are identical to this unit
AZ-68-A-15	Detail, unit 5, pump motor. This motor is also 1,100 hp and is manufactured by the Electric Products Company. Note additional gauges and box attached to side. Unit 6 is identical to this unit
AZ-68-A-16	Detail of field breakers in the motor control cabinet for unit 3. Control cabinet and breaker panel built by Cutler-Hammer
AZ-68-A-17	Detail, cyclops 15-ton overhead traveling crane and rails running the length of the building
AZ-68-A-18	Detail, back side of crane, showing control wires
AZ-68-A-19	Main Control Room, view to the east. The door to the motor room is to the right, and the main control cabinets are to the left

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- AZ-68-A-20 Pump room level, looking west in the service bay area. Cable trays and two ventilation fans (part of the evaporative-cooling system) are visible at right. The vacuum pump is in the center in front of a concrete partition, and a water discharge pipe is visible beyond the partition at left
- AZ-68-A-21 Overview of Pump Room, showing pumps at right and power distribution cabinets for valve motors along north wall at left. View to east
- AZ-68-A-22 Detail, Unit 4, Worthington Mix-Flo Pump, Harrison, New Jersey, USA. All six pump units are of the same size, make, and model
- AZ-68-A-23 Detail unit 5, showing discharge pipe and vacuum valve on discharge side of pump
- AZ-68-A-24 PLAN AND SECTION. WELLTON-MOHAWK PUMPING PLANT NO. 1 WELLTON-MOHAWK CANAL - STA. 452+32. United States Department of the Interior, Bureau of Reclamation; Gila Project, Arizona, Wellton-Mohawk Division. Drawing No. 50-D-2368, dated June 30, 1948, Denver, Colorado.
- AZ-68-A-25 ARCHITECTURAL EXTERIOR ELEVATIONS AND DETAILS, WELLTON-MOHAWK PUMPING PLANT NO. 1. United States Department of the Interior, Bureau of Reclamation; Gila Project, Arizona, Wellton-Mohawk Division. Drawing No. 50-D-2359, dated November 24, 1948, Denver, Colorado.
- AZ-68-A-26 GENERAL ARRANGEMENT BUILDING AND EQUIPMENT. WELLTON-MOHAWK PUMPING PLANT NO.. 1. United States Department of the Interior, Bureau of Reclamation; Gila Project, Arizona, Wellton-Mohawk Division. Drawing No. 50-D-2328, dated August 2, 1948, Denver, Colorado.
- AZ-68-A-27 DISCHARGE PIPES. WELLTON-MOHAWK PUMPING PLANT NO. 1 WELLTON-MOHAWK CANAL - STA. 452 +32.00. United States Department of the Interior, Bureau of Reclamation; Gila Project, Arizona, Wellton-Mohawk Division. Drawing No. 50-D-2370, dated November 30, 1948, Denver, Colorado.